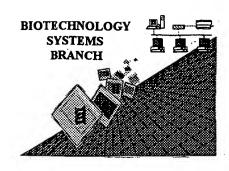
BEST AVAILABLE COPY

RAW SEQUENCE LISTING **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable

Application Serial Number: Date Processed by STIC:

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 TECH CENTER 1600/2900 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE: SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by the treatment given to all mail coming via the Brentwood Mail Facility.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual - ePAVE)
- 2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Hand Carry directly to:
 - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, 1911 South Clark Street, Crystal Mall One, Sequence Information, Arlington, VA 22202
 - U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Box Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, Virginia 22202
- 4. Federal Express Delivery, 2011 South Clark Street, Crystal Plaza 2, Room 1B03-Mailroom, Box Sequence, Arlington, VA 22202

RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

5 <110> APPLICANT: Genentech, Inc.

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

```
7
              Ashkenazi, Avi
                                       su p. 36
      9
              Botstein, David
                                                                        Does Not Comply
     11
              Desnoyers, Luc
                                                                    Corrected Diskette Needed
     13
              Eaton, Dan L.
     15
              Ferrara, Napoleone
                                                                      17
              Filvaroff, Ellen
     19
              Fong, Sherman
     21
              Gao, Wei-Qiang
     23
              Gerber, Hanspeter
     25
              Gerritsen, Mary E.
     27
              Goddard, A.
     29
              Godowski, Paul J.
     31
              Grimaldi, Christopher J.
     33
              Gurney, Austin L.
     35
              Hillan, Kenneth, J.
     37
              Kljavin, Ivar J.
     39
              Mather, Jennie P.
     41
              Pan, James
              Paoni, Nicholas F.
     43
     45
              Roy, Margaret Ann
     47
              Stewart, Timothy A.
     49
              Tumas, Daniel
     51
              Williams, P. Mickey
              Wood, William, I.
     57 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
              Acids Encoding the Same
     59
     63 <130> FILE REFERENCE: 10466-14
     67 <140> CURRENT APPLICATION NUMBER: 09/665,350A
     69 <141> CURRENT FILING DATE: 2000-09-18
     73 <150> PRIOR APPLICATION NUMBER: PCT/US00/04414
W--> 75/<151> PRIOR FILING DATE: 2000
W--> 77 22
    ^{/81} <150> PRIOR APPLICATION NUMBER: US 60/143,048
    83 <151> PRIOR FILING DATE: 1999
                                                                         p 37
    85 07
     89 <150> PRIOR APPLICATION NUMBER: US 60/145,698
W--> 91 <151> PRIOR FILING DATE: 1999
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  > 107 <151> PRIOR FILING DATE: 1999
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    113 <150> PRIOR APPLICATION NUMBER: PCT/US99/20944
   > 115 <151> PRIOR FILING DATE: 1999
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RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\1665350A.raw

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121 <150> PRIOR APPLICATION NUMBER: PCT/US99/21090

W--> 123 <151> PRIOR FILING DATE: 1999

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W--> 131 <151> PRIOR FILING DATE: 1999

W--> 133 15

137 <150> PRIOR APPLICATION NUMBER: PCT/US99/23089

W--> 139 <151> PRIOR FILING DATE: 1999

W--> 141 05

145 <150> PRIOR APPLICATION NUMBER: PCT/US99/28214

W--> 147 <151> PRIOR FILING DATE: 1999

W--> 149 29

153 <150> PRIOR APPLICATION NUMBER: PCT/US99/28313

W--> 155 <151> PRIOR FILING DATE: 1999

W--> 157 30

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W--> 163 <151> PRIOR FILING DATE: 1999

W--> 165 02

169 <150> PRIOR APPLICATION NUMBER: PCT/US99/28565

W--> 171 <151> PRIOR FILING DATE: 1999

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W--> 187 <151> PRIOR FILING DATE: 1999

W--> 189 20

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W--> 195 <151> PRIOR FILING DATE: 1999

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W--> 199 <151> PRIOR FILING DATE: 2000

W--> 201 05

E--> 205 <160> NUMBER OF SEQ ID NOS: 423

ERRORED SEQUENCES

369 <210> SEQ ID NO: 2

371 <211> LENGTH: 353

373 <212> TYPE: PRT

375 <213> ORGANISM: Homo Sapien

379 <400> SEQUENCE: 2

381 Met Arg Leu Pro Arg Arg Ala Ala Leu Gly Leu Leu Pro Leu Leu 383 10

387 Leu Leu Pro Pro Ala Pro Glu Ala Ala Lys Lys Pro Thr Pro

20 393 Cys His Arg Cys Arg Gly Leu Val Asp Lys Phe Asn Gln Gly Met

395 40

P37

Input Set : N:\EBONY'S\ES.txt

```
399
       Val Asp Thr Ala Lys Lys Asn Phe Gly Gly Gly Asn Thr Ala Trp
   401
   405
       Glu Glu Lys Thr Leu Ser Lys Tyr Glu Ser Ser Glu Ile Arg Leu
   407
   411
       Leu Glu Ile Leu Glu Gly Leu Cys Glu Ser Ser Asp Phe Glu Cys
   413
   417
       Asn Gln Met Leu Glu Ala Gln Glu Glu His Leu Glu Ala Trp Trp
   419
                   95
                                 100
   423
       Leu Gln Leu Lys Ser Glu Tyr Pro Asp Leu Phe Glu Trp Phe Cys
   425
                  110
                                 115
   429
       Val Lys Thr Leu Lys Val Cys Cys Ser Pro Gly Thr Tyr Gly Pro
   431
   435
       Asp Cys Leu Ala Cys Gln Gly Gly Ser Gln Arg Pro Cys Ser Gly
   437
   441
       Asn Gly His Cys Ser Gly Asp Gly Ser Arg Gln Gly Asp Gly Ser
   443
                  155
                                 160
   447
       Cys Arg Cys His Met Gly Tyr Gln Gly Pro Leu Cys Thr Asp Cys
   449
Mon-ASUI characters

These may indicate

format markers or

11e a corrupted
195
Thr
210

disk sector
      E--> 475 ???????????????????++++++++?%++++++++*
E--> 477
       Met Asp Gly Tyr Phe Ser Ser Leu Arg Asn Glu Thr His Ser Ile
   479
   483
       Cys Thr Ala Cys Asp Glu Ser Cys Lys Thr Cys Ser Gly Leu Thr
   485
                  200
                                 205
                                               210
   489
       Asn Arg Asp Cys Gly Glu Cys Glu Val Gly Trp Val Leu Asp Glu
   491
                  215
                                 220
   495
       Gly Ala Cys Val Asp Val Asp Glu Cys Ala Ala Glu Pro Pro
   497
                  230
                                 235
   501
       Cys Ser Ala Ala Gln Phe Cys Lys Asn Ala Asn Gly Ser Tyr Thr
   503
                                 250
   507
       Cys Glu Glu Cys Asp Ser Ser Cys Val Gly Cys Thr Gly Glu Gly
   509
   513
       Pro Gly Asn Cys Lys Glu Cys Ile Ser Gly Tyr Ala Arg Glu His
   515
                                 280
   519
       Gly Gln Cys Ala Asp Val Asp Glu Cys Ser Leu Ala Glu Lys Thr
   521
                  290
                                 295
   525
       Cys Val Arg Lys Asn Glu Asn Cys Tyr Asn Thr Pro Gly Ser Tyr
   527
                  305
                                 310
                                               315
```

Input Set : N:\EBONY'S\ES.txt

```
Val Cys Val Cys Pro Asp Gly Phe Glu Glu Thr Glu Asp Ala Cys
     531
     533
                         320
                                            325
     537
         Val Pro Pro Ala Glu Ala Glu Ala Thr Glu Gly Glu Ser Pro Thr
     539
                         335
     543
         Gln Leu Pro Ser Arg Glu Asp Leu
     545
                         350
     737 <210> SEQ ID NO: 4
     739 <211> LENGTH: 379
     741 <212> TYPE: PRT
     743 <213> ORGANISM: Homo Sapien
     747 <400> SEQUENCE: 4
         Met Ala Arg Arg Ser Ala Phe Pro Ala Ala Leu Trp Leu Trp
     751
     755
         Ser Ile Leu Leu Cys Leu Leu Ala Leu Arg Ala Glu Ala Gly Pro
     757
     761
         Pro Gln Glu Glu Ser Leu Tyr Leu Trp Ile Asp Ala His Gln Ala
     763
                          35
                                             40
     767
         Arg Val Leu Ile Gly Phe Glu Glu Asp Ile Leu Ile Val Ser Glu
     769
                          50
                                             55
     773
         Gly Lys Met Ala Pro Phe Thr His Asp Phe Arg Lys Ala Gln Gln
     775
                          65
                                             70
     779
         Arg Met Pro Ala Ile Pro Val Asn Ile His Ser Met Asn Phe Thr
     781
                          80
                                             85
     785
         Trp Gln Ala Ala Gly Gln Ala Glu Tyr Phe Tyr Glu Phe Leu Ser
     787
                          95
     791
         Leu Arg Ser Leu Asp Lys Gly Ile Met Ala Asp Pro Thr Val Asn
    793
                         110
     797
         Val Pro Leu Leu Gly Thr Val Pro His Lys Ala Ser Val Val Gln
     799
                         125
                                            130
    803
         Val Gly Phe Pro Cys Leu Gly Lys Gln Asp Gly Val Ala Ala Phe
    805
                         140
                                            145
    809
         Glu Val Asp Val Ile Val Met Asn Ser Glu Gly Asn Thr Ile Leu
    811
                         155
                                            160
    815
         Gln Thr Pro Gln Asn Ala Ile Phe Phe Lys Thr Cys Gln Gln Ala
    817
                         170
                                            175
    821
         Glu Cys Pro Gly Gly Cys Arg Asn Gly Gly Phe Cys Asn Glu Arg
    823
                        185
                                            190
    827
         Arg Ile Cys Glu Cys Pro Asp Gly Phe His Gly Pro His Cys Glu
    829
                         200
                                            205
    833
         Lys Ala Leu Cys Thr Pro Arg Cys Met Asn Gly Gly Leu Cys Val
    835
                                            220
    839
         Thr Pro Gly Phe Cys Ile Cys Pro Pro Gly Phe Tyr Gly Val Asn
    841
                         230
    845
         Cys Asp Lys Ala Asn Cys Ser Thr Thr Cys Phe Asn Gly Gly Thr
    847
                        245
                                            250
    851
         Cys Phe Tyr Pro Gly Lys Cys Ile Cys Pro Pro Gly Leu Glu Gly
same end
supp 5-6
```

Input Set : N:\EBONY'S\ES.txt

```
E--> 863 ??????????????????????++++++++?`++++++*
 E--> 879 4???????????5????????+++++++??+++++++??+++++
E--> 881 ????????????????????????+++++++*\`++++++*
E--> 895 ???????????????????+++++++?`++++++*%+++++++?????
E--> 897 ??????o???o?5????5???5????+++++++??++++++??+++++++
 E--> 901 ?%++++++++??????????????????5?5???5?o????+++++++
E--> 905 ?+++++++?`++++++++?%+++++++++?????5????????5?o??++++++++??
```

Input Set : N:\EBONY'S\ES.txt

```
971 ?????????????++++++++***++++++** `+++++++????????5?5?
E--> 991 ??????4?????5????????++++++++??++++++??++++++??
E--> 1009
    Glu Gln Cys Glu Ile Ser Lys Cys Pro Gln Pro Cys Arg Asn Gly
  1011
          275
                  280
                          285
  1015
    Gly Lys Cys Ile Gly Lys Ser Lys Cys Lys Cys Ser Lys Gly Tyr
  1017
          290
                  295
  1021
    Gln Gly Asp Leu Cys Ser Lys Pro Val Cys Glu Pro Gly Cys Gly
  1023
          305
                  310
  1027
    Ala His Gly Thr Cys His Glu Pro Asn Lys Cys Gln Cys Gln Glu
  1029
          320
                  325
  1033
    Gly Trp His Gly Arg His Cys Asn Lys Arg Tyr Glu Ala Ser Leu
  1035
          335
                  340
  1039
    Ile His Ala Leu Arg Pro Ala Gly Ala Gln Leu Arg Gln His Thr
  1041
          350
                  355
  1045
    Pro Ser Leu Lys Lys Ala Glu Glu Arg Arg Asp Pro Pro Glu Ser
  1047
                  370
                          375
EX-> 1051 Asn Tyr Ile Trp
  2325 <210> SEQ ID NO: 28
               pr 7-13
  2327 <211> LENGTH: 660
  2329 <212> TYPE: PRT
  2331 <213> ORGANISM: Homo Sapien
  2335 <400> SEQUENCE: 28
    Met Gly Leu Gln Thr Thr Lys Trp Pro Ser His Gly Ala Phe Phe
  2337
  2339
           5
                   10
    Leu Lys Ser Trp Leu Ile Ile Ser Leu Gly Leu Tyr Ser Gln Val
  2343
```

25

30

Input Set : N:\EBONY'S\ES.txt

20

2345

	2343					20					LJ					50
	2349	Ser	Lys	Leu	Leu	Ala	Cys	Pro	Ser	Val	Cys	Arg	Cys	Asp	Arg	Asn
	2351					35					40					45
	2355	Phe	Val	Tyr	Cys	Asn	Glu	Arg	Ser	Leu		Ser	Val	Pro	Leu	Gly
	2357	_			_	50					55					60
	2361	Ile	Pro	Glu	Gly		Thr	Val	Leu	${ t Tyr}$		His	Asn	Asn	Gln	
	2363		_			65	_		·		70	_			_	75
	2367	Asn	Asn	Ala	Gly		Pro	Ala	Glu	Leu		Asn	Val	Gln	Ser	
	2369	1	_,	1	_	- 80	_		_		85			_,	_	90
	2373	H1S	Thr	Val	Tyr		Tyr	GLy	Asn	Gln		Asp	GLu	Phe	Pro	
	2375		_	_	_	95				_	100	_	a 3		_	105
	2379	Asn	Leu	Pro	ьуs		vaı	Arg	vaı	Leu		Leu	GIn	GIU	Asn	
	2381	T1.	a1	m la	-1 -	110	3	. 1 -		T	115	01	T	T	T	120
	2385	ire	GIN	Thr	ire		Arg	Ата	Ата	Leu		GIN	Leu	ьeu	гаг	
	2387 2391	C1.,	C1.,	T 011	mi o	125	7 an	7 an	7 an	Com	130	Com	шЬ∽	1701	~1	135
	2391	GIU	GIU	Leu	HIS	140	ASP	ASP	ASII	ser	145	ser	THE	Val	СТА	vai 150
		+?++-						والمساسطين	2222	2222		2222	2222	יייייי	o 4	130
₽>	2397															
	2399				-			-								
	2401															
	2401										•					
	2405															
_	2407													-		
	2409															
	2411				– .											
	2413														??	
	2415						-									
	2417															
E>	2419	33330	2777	?????	2227	2222	2+++1	++++	-??+4	++++	++??	2+++	++++	-2221	??	
E>	2421	22223	2222	22223	?????	+++	++++	-222	?????	2222	????	?????	?????	??		
E>	2423	22222	????	?????	2222	2777	?????	2333	?????	?????	. 2 ? ? ?	2222	??			
E>	2425	33333	?????	?????	2777	?????	?????	????	.5555	?????	????	?????	.55			
E>	2427	22222	?????	?????	2777	2222	?????	2777	2333	2555	3333	?????	.55			
E>	2429	22222	????	?????	2222	2333	22223	2333	3333	2222	.5555	2222	.3			
E>	2431	33333	2222	?????	, , , , , ,	2222	?????	2555	.5555	2555	3555	2333	.33			
E>	2433	55555	5555	25555	,555	2333	55555	,3,3,3	.5555	,5555	.3333	3333	.5			
E>	2435	33333	55555	55555	.5555	5555	55555	,3,3,3,3	,5555	,5555	5555	33333	. 5			
E>	2437	33333	55555	55555	3333	5555	55555	?4??	, , , , , ,	,3553	5555	3333	.3			
E>	2439	33333	55555	33333	???4?	5555	55555	3333	.3333	3333	5555	5555	.5			
E>	2441	33333	55555	23333	.3333	5555	55555	,3,3,3	3333	.3333	???4	15555	.5			
E>	2443	33333	33333	23333	.3333	,3333	33333	,5555	?4??	,5555	.5555	. 5.5.5.5	.3			
E>	2445	33333	55555	33333	.5555	,3333	55555	.5555	,3,5,5,5	.3333	3333	, , , , , ,	.3			
	2447															
	2449															
	2451															
	2453												*			
	2455															
E>	2457	33333	.3333		3333	,3333	,5555	3333	.5553	3333	.5553	,3333	.3			

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/665,350A

DATE: 12/19/2001 TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

B /	2433	
E>	2461	???????????????????????????????????????
E>	2463	???????????????????????????????????????
		???????????4????????5?5????5???5??5??+?+++++
_		
		+?+++++++++++++++++++??????????????????
E>	2469	+++++++?%+++++++?`+++++++?????4???o???5??????????????
E>	2471	?5????+++++++++++++++++++++++++++++++?????
E>	2473	???????????++++++++;%+++++++;`+++++++;??????????
		?5?0????????????+++++++++++++++++++++++
		??????????????????????++++++++?%+++++++?`\+++++++?
		???5???5??????????????????+++++++++++++
		+++++????????????????????????????
E>	2483	++++?`++++++???????5?5?????????????????
E>	2485	+??++++++??++++++??????????????????????
E>	2487	??++++++?%++++++; `++++++;????????????????????????
E>	2489	???????+++++++; `+++++++?%+++++++;????5??????????????????
E>	2491	??????????5??+++++++??++++++??++++++??????
E>	2493	??????????????????+++++++; `++++++;%+++++++?????
		?????????????5??+++++++??++++++????????
		???????????????????????????????????????
		777777777777777777777777777777777777777
		???????????????????????????????????????
		???????????????????????????????????????
E>	2505	?????????????????????????????????????
E>	2507	???????????????????????????????????????
E>	2509	????4??????????????????????????????????
E>	2511	?4?????????????????????????????????????
E>	2513	??????????4?????????????????4??????????
E>	2515	??????????????????????4????????4???????
E>	2517	?????????????????????????????????????
		???????????????????????????????????????
		777777777777777777777777777777777777777
		?????????????????????????????????????
		???????????????????????????????????????
E>	2527	??????????4????????????????????????????
E>	2529	???????????????????????????????????????
E>	2531	???4???????????4???????????????????????
E>	2533	??????????????4????????????????????????
E>	2535	???????????????????????????????????????
	2537	???????????????????????????????????????
E>	2539	???????????????????????????????????????
		???????????????????????????4???????????
		???????????????????????????????????????
		4??????????????????????????????????????
_		???????????????????????????????????????
		????????4??????????????????????????????
		???????????????????????????????????????
		??????4????????????????????????????????
E>	2555	???????????????????????????????????????

RAW SEQUENCE LISTINGPATENT APPLICATION: US/09/665,350A

DATE: 12/19/2001

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

```
E--> 2581 ??????????????????????++++++++?%++++++?`+++++++
E--> 2595 ???????????????+++++++?%+++++++?`++++++??
E--> 2597
      Glu Asp Gly Ala Phe Arg Glu Ala Ile Ser Leu Lys Leu Leu Phe
  2599
               155
                          160
  2603
      Leu Ser Lys Asn His Leu Ser Ser Val Pro Val Gly Leu Pro Val
  2605
               170
                          175
  2609
     Asp Leu Gln Glu Leu Arg Val Asp Glu Asn Arg Ile Ala Val Ile
  2611
               185
                          190
  2615
      Ser Asp Met Ala Phe Gln Asn Leu Thr Ser Leu Glu Arg Leu Ile
  2617
                          205
  2621
      Val Asp Gly Asn Leu Leu Thr Asn Lys Gly Ile Ala Glu Gly Thr
  2623
               215
                          220
  2627
      Phe Ser His Leu Thr Lys Leu Lys Glu Phe Ser Ile Val Arg Asn
  2629
               230
                          235
  2633
      Ser Leu Ser His Pro Pro Pro Asp Leu Pro Gly Thr His Leu Ile
  2635
               245
                          250
  2639
      Arg Leu Tyr Leu Gln Asp Asn Gln Ile Asn His Ile Pro Leu Thr
  2641
               260
                          265
  2645
     Ala Phe Ser Asn Leu Arg Lys Leu Glu Arg Leu Asp Ile Ser Asn
  2647
               275
                          280
  2651
     Asn Gln Leu Arg Met Leu Thr Gln Gly Val Phe Asp Asn Leu Ser
  2653
               290
                          295
  2657
      Asn Leu Lys Gln Leu Thr Ala Arg Asn Asn Pro Trp Phe Cys Asp
  2659
               305
  2663
      Cys Ser Ile Lys Trp Val Thr Glu Trp Leu Lys Tyr Ile Pro Ser
  2665
               320
                          325
  2669
     Ser Leu Asn Val Arg Gly Phe Met Cys Gln Gly Pro Glu Gln Val
  2671
               335
                          340
  2675
     Arg Gly Met Ala Val Arg Glu Leu Asn Met Asn Leu Leu Ser Cys
  2677
               350
                          355
  2681
     Pro Thr Thr Pro Gly Leu Pro Leu Phe Thr Pro Ala Pro Ser
```

Input Set : N:\EBONY'S\ES.txt

•	2683					365					370					375
	2687	Thr	Ala	Ser	Pro	Thr	Thr	Gln	Pro	Pro	Thr	Leu	Ser	Ile	Pro	Asn
	2689					380					385					390
	2693	Pro	Ser	Arg	Ser	Tyr	Thr	Pro	Pro	Thr	${\tt Pro}$	Thr	Thr	Ser	Lys	Leu
	2695					395					400					405
	2699	Pro	Thr	Ile	Pro	Asp	Trp	Asp	Gly	Arg	Glu	Arg	Val	Thr	Pro	Pro
	2701					410					415					420
	2705	Ile	Ser	Glu	Arg	Ile	Gln	Leu	Ser	Ile	His	Phe	Val	Asn	Asp	Thr
	2707					425					430					435
	2711	Ser	Ile	Gln	Val	Ser	\mathtt{Trp}	Leu	Ser	Leu	Phe	Thr	Val	Met	Ala	_
	2713					440					445					450
	2717	Lys	Leu	Thr	\mathtt{Trp}		Lys	Met	Gly	His		Leu	Val	Gly	Gly	Ile
	2719					455					460					465
	2723			-				_							_	
		22222			_	_		-								
_ :	2727	5????											77777	2222	??	
_ :		22222						•	•			++++	+++;	,,,,,,	'o	
_ :	2731	22222						•			++++	+++3	??+++	++++	++	
E>	2733	22222									++++	-7%++	++++	+++		
E>		? \+++			???57								++++	++?		
E>	2737	-								• -					- 0	
		?++++				•									•	
E>	2741 2743	35553														
E>		22222													-	
E>	2745	33333						_	-				. T T T 1		. E	
E>	2747	+2222									_				T T	
E>		2+++												772		
E>	2753	8+++4	 		 .+++4			,,,,					2222	222+		
E>		++++	+++27	2+++4	 -+++			++22						2777	2	
E>		22222						_								
		22222									•				-	
E>	2761	22222										++++	++??	2777	2	
E>	2763	5????	????	5222	2222	3333	??0??	++++	-+++	-??++	++++	++??	++++	++++	-?	•
E>	2765	33333	?????	?????	?????	????	?????	????	????+	++++	+++?	8+++	+++	++?		
E>	2767	1+++4	++++	+2222	??5??	??0??	????4	2222	????5	3233	????	++++	++++	-??+		
E>	2769	++++	++??	+++	++++	-222										
E>	2771	+?++4	++++	+?++	++++	++?+	++++	++++	-5555	3333	2233	3333	2223	????	.33	
E>	2773	33333	??+++	++++	++?%+	++++	+++7	, , +++	++++	+???	??57	2223	??5?	????	?	
E>	2775	?5???	?????	????	++++	++++	-?+++	++++	++?+	++++	+++1	. ? ? ? ?	2222	2223	.5.5	
	2777	?????	?????	?????	?????	?+++	-+++	-+?&+	++++	+++?	·	++++	+???	????	5	
E>	2779	33333	2555	2555	25555	??57	5??+	++++	++++	?+++	++++	++?+	++++	++++	. ? ?	
E>	2781	25555	2333	2222	23333	2223	,5555	3333	?+++	++++	+?%+	++++	+++?	++*		
E>	2783	++++	++???	2333	???5?	??4?		3333	.5555	3333	?++1	++++	++?+	++++	•	
E>	2785	+++33	++++	++++	13333	3333	. 5 5 5 5	. 5 5 5 5	, 5, 5, 5, 5,	.3333	.3333	.5555	?+++	+++		
E>	2787	++?%+	++++	+++;	, +++	++++	+333	. 5 5 5 5	,0333	,0333	. 5 5 5 5	,0333	5555	555		
	2789			/		-	-								-	
	2791															
E>	2793	5????	.5555	.3333	???++	++++	++??	++++	++++	??++	++++	++??	.5555	.5555	.5	

Input Set : N:\EBONY'S\ES.txt

```
E--> 2851 ?????????????++++++++; '++++++?%+++++++????????5???o
E--> 2855 ???????????????????????+++++++?\++++++
```

DATE: 12/19/2001

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/665,350A TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

E>	2893	???????????????????????????4???????????
E>	2895	??????????4????????????????????????????
E>	2897	???????????????????????????????????????
E>	2899	???????????????????????????????????????
E>	2901	??????4????????????????????????????????
E>	2903	???????4???????????4???????????????????
E>	2905	???????????????????????????????????????
E>	2907	4??????????????????????????????????????
E>	2909	????????????4??????????????????????????
E>	2911	?????????????????????????4?????????????
E>	2913	??????????????????????4????????????????
E>	2915	??????????4????????????????????????????
E>	2917	???????????????????????????????????????
E>	2919	???????????????????????????????????????
E>	2921	???????????????????????????????????????
E>	2923	???????????????????????????????????????
E>	2925	???????????????????????????????????????
E>	2927	???????????????????4???????????????????
E>	2929	???????4????????4????????4???????4
E>	2931	???????????????????????????????????????
E>	2933	4?????????????????????????4????????????
E>	2935	?????4???????4???????4?????????????????
E>	2937	???????????????????????????????????????
E>	2939	???????????????????????????????????????
E>	2941	???????????????????????????????????????
E>	2943	???????????????????????????????????????
E>	2945	???4??????????????????????????????????
E>	2947	???????4???????????????????????????????
E>	2949	???????????????????????????????????????
E>	2951	??????????????????????????????????
E>	2953	++++++***+++++++**********************
E>	2955	++++++?++++++++++++++++++++++++++++++++
E>	2957	????+++++++?`+++++++*%++++++++??????????
E>	2959	??????5??++++++++++++++++++++++++++++++
E>	2961	??????????????++++++++; `+++++++;%++++++++?????????????
E>	2963	??????5?5???????????+++++++++++++++++++
E>	2965	????????????????????????++++++++?`++++++
E>	2967	+++?????5????????????5???5????+++++++??++++++
E>	2969	??++++++??????????????????????????????
E>	2971	?`++++++?%++++++???5?5?5???5?0?0??????????
E>	2973	?++++++??++++++??++++++????????????????
E>	2975	???????+++++++; `+++++++?%+++++++???5???????????????????
E>	2977	????????5???++++++++??+++++++??+++++++??????
		???????????????????+++++++?`+++++++++++
E>	2981	0?4???????5????5?5??5??+++++++??++++++??++++++
E>	2983	+????????????????????????????
E>	2985	?%+++++++????????????????????????????
E>	2987	?++++++??++++++????????????????????????
E>	2989	?++++++; `++++++; %+++++++; ????5???5???0???????????????

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/665,350A

DATE: 12/19/2001 TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

```
E--> 2997 ???????????????????????*+++++++?`++++++
E--> 3003 \++++++++?%+++++++???????4???????5?5???4???5?5????+
E--> 3011 ??????????????????++++++++* `++++++*%+++++++???????
E--> 3015 ????????????????????????????*++++++++; '+++++++?
E--> 3021 ++++++? \+++++++?%+++++++????
       Val Gln Glu Arg Ile Val Ser Gly Glu Lys Gln His Leu Ser Leu
E--> 3023
                                475
   3025
                  470
   3029
       Val Asn Leu Glu Pro Arg Ser Thr Tyr Arg Ile Cys Leu Val Pro
   3031
                  485
                                490
   3035 Leu Asp Ala Phe Asn Tyr Arg Ala Val Glu Asp Thr Ile Cys Ser
   3037
                  500
                                505
       Glu Ala Thr Thr His Ala Ser Tyr Leu Asn Asn Gly Ser Asn Thr
   3041
                                520
   3043
                  515
       Ala Ser Ser His Glu Gln Thr Thr Ser His Ser Met Gly Ser Pro
   3047
                  530
                                535
   3049
   3053
       Phe Leu Leu Ala Gly Leu Ile Gly Gly Ala Val Ile Phe Val Leu
                                550
                                              555
   3055
                  545
       Val Val Leu Leu Ser Val Phe Cys Trp His Met His Lys Lys Gly
   3059
                                565
   3061
                  560
       Arg Tyr Thr Ser Gln Lys Trp Lys Tyr Asn Arg Gly Arg Arg Lys
   3065
                                580
                  575
   3067
       Asp Asp Tyr Cys Glu Ala Gly Thr Lys Lys Asp Asn Ser Ile Leu
   3071
                                595
   3073
                  590
       Glu Met Thr Glu Thr Ser Phe Gln Ile Val Ser Leu Asn Asn Asp
   3077
                                610
   3079
                  605
       Gln Leu Leu Lys Gly Asp Phe Arg Leu Gln Pro Ile Tyr Thr Pro
   3083
                  620
                                625
   3085
   3089
       Asn Gly Gly Ile Asn Tyr Thr Asp Cys His Ile Pro Asn Asn Met
   3091
                  635
                                640
       Arg Tyr Cys Asn Ser Ser Val Pro Asp Leu Glu His Cys His Thr
   3095
EP6> 3097
                  650
                                655
   3473 <210> SEQ ID NO: 34
   3475 <211> LENGTH: 915
   3477 <212> TYPE: PRT
   3479 <213> ORGANISM: Homo Sapien
   3483 <400> SEQUENCE: 34
   3485 Met Glu Lys Met Leu Ala Gly Cys Phe Leu Leu Ile Leu Gly Gln
   3487
```

Input Set : N:\EBONY'S\ES.txt

3491 Ile Val Leu Leu Pro Ala Glu Ala Arg Glu Arg Ser Arg Gly Arg

	3491	rre	vai	Leu	ьeu	PLO	Ald	GIU	Ald	Arg		Arg	ser	Arg	GTA	Arg
	3493					20					25					30
	3497	Ser	Ile	Ser	Arg	Gly	Arg	His	Ala	Arg	Thr	His	Pro	Gln	Thr	Ala
	3499				_	35	_			_	40					45
	3503	T.e.ii	T.011	Glu	Ser		Cys	Glu	Δen	T.v.c	_	Δla	Δen	T.eu	Va l	
	3505	Бец	пец	GIU	Der		Cys	GIU	ASII	цуз	_	пта	дор	Leu	Val	
					_	50					55				_	60
	3509	Ile	IIe	Asp	Ser	Ser	Arg	Ser	Val	Asn	Thr	His	Asp	${ t Tyr}$	Ala	Lys
	3511					65					70					75
	3515	Val	Lys	Glu	Phe	Ile	Val	Asp	Ile	Leu	Gln	Phe	Leu	Asp	Ile	Gly
	3517		-			80		-			85			•		90
	3521	Dro	λen	17 a 1	Thr		Val	Glaz	LAU	Lan		Tur	G1v	Cor	Thr	
		FIO	кэр	Val	1111	_	Val	Gry	пец	пец		тут	GLY	261	T 11T	
	3523					95					100					105
E>	3527	++++	+++;	??++-	++++	++??	++++	+++7	55555	55555	5555	5555	5555	5555	5.5	
E>	3529	\$5555	555+-	++++	+++3	,+++	++++	+7%++	++++	++??	??5?	2555	5555	5555	5.5	
E>	3531	??5?	2555	5555	?+++	++++	+25+-	++++	++??	?+++	+++-	F2221	2222	22221	5.5	
E>	3533	22223	2222	2222	????	7777	++++	++++	1++	++++	++?%-	+++-	+++7	????	??	
E>	3535	22223	2522	2222	2222	2224	22223	? + + +	++++	+224	+++-	+++7	??++	++++	++	
E>	3537	22223	2222	2222	2222	2222	2222	2222	2222	++++	+++-	F2 1+-	·+++	+++		
		?%+++										-				
												-				
		?+++													_	
E>	3543	2++++	++++	+5,++	++++	+++3;	8+++	++++	13330	0,505,5		2555	55555	55550	25	
E>	3545	55555	555+	++++	+++??	?+++	++++	+55+	++++	+++??	5555	5555	55555	55555	5.5	
E>	3547	55555	5555	5555	??+++	+++-	++? *+	++++	+++7	8+++	++++	++???	???57	25222	??	
E>	3549	20221	???57	2222	2222	????-	++++	+++7	?+++	++++	+77+	++++	++++	?????	??	
E>	3551	22223	2222	2222	2777	2222	2222	???+4	++++	+++?	++++	++++	+ ?%++	++++	++	
E>	3553	+????	2222	2222	2222	2222	2525	52222	2222	++++		122+	++++	++2		
		2++++			•											
		•												•		
		33333														
		33333											-			
E>	3561	55555	55555	55555	55555	55555	55555	55555	55555	,5555	, 5, 5, 5, 5	55555	5.5.5			
E>	3563	55555	5555	55555	55555	5555	55555	, 5, 5, 5, 5	55555	,5555	,555	55555	555			
E>	3565	33333	3355	5555	2222	2222	22222	33333	2555	2555	???47	2222	5.5			
E>	3567	22222	2222	2222	2222	2222	2222	2555	2222	2222	2222	?????	223			
E>	3569	33333	2222	2222	2222	2222	22222	2222	2222	4222	2222	2222	2			
		22222														
		22222														
		33333											-			
		55555											-			
E>	3579	55555	,5555	55555	, 5, 5, 5, 5	?74?7	55555	,5555	,5555	, 5, 5, 5, 5	, 5, 5, 5, 5	???4?	. 5			
E>	3581	33333	,5555	55555	2555	5555	2222	,5555	,5555	2555	2555	2555	. 5			
E>	3583	22223	2222	2222	2222	2777	2222	2777	2222	????	2222	2222	. 5			
E>	3585	22222	2222	???4?	2222	2222	2222	2222	2222	2353	2222	2222	.5			
E>	3587	24222	2222	2222	2222	2222	2222	2222	2222	2222	2222	2222	2			
		22222											-			
		55555											-			
													•			
		22223											-			
		33333											-			
E>	3597	33333	.5555	.5555	.5555	,5555	??4??	.5555	,5555	.5555	5555	,5555	. 5			
E>	3599	\$5555	.5555	,5555	.5555	,5555	55555	.5555	5555	3555	2427	,5555	.5			

Input Set : N:\EBONY'S\ES.txt

```
E--> 3677 ??+++++++?`++++++?%+++++++????
E--> 3679
 Lys Asn Glu Phe Ser Leu Lys Thr Phe Lys Arg Lys Ser Glu Val
3681
    110
        115
           120
3685
 Glu Arg Ala Val Lys Arg Met Arg His Leu Ser Thr Gly Thr Met
3687
    125
           135
3691
 Thr Gly Leu Ala Ile Gln Tyr Ala Leu Asn Ile Ala Phe Ser Glu
3693
    140
        145
           150
3697
 Ala Glu Gly Ala Arg Pro Leu Arg Glu Asn Val Pro Arg Val Ile
3699
    155
        160
3703
 Met Ile Val Thr Asp Gly Arg Pro Gln Asp Ser Val Ala Glu Val
3705
    170
        175
           180
```

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

3709 3711	Ala	Ala	Lys	Ala	Arg 185	Asp	Thr	Gly	Ile	Leu 190	Ile	Phe	Ala	Ile	Gly 195
3715	Val	Gly	Gln	Val		Phe	Asn	Thr	Leu		Ser	Ile	Gly	Ser	
3717					200					205					210
3721	Pro	His	Glu	Asp		Val	Phe	Leu	Val		Asn	Phe	Ser	Gln	
3723 3727	C1.	mhn	T 0.13	mb w	215	17a l	Dho	01 =	T	220	T 011	0	mb	71.	225
3729	GIU	THE	Leu	Thr	230	vaı	Pne	Gln	гах	ьуs 235	Leu	Cys	THE	Ата	240
3733	Met	Cys	Ser	Thr		Glu	His	Asn	Cvs		His	Phe	Cys	Ile	
3735		_			245				-	250			•		255
3739	Ile	Pro	Gly	Ser		Val	Cys	Arg	Cys	_	Gln	Gly	Tyr	Ile	
3741	•	a .		a 1	260	m1		_		265		_	_		270
3745 3747	Asn	Ser	Asp	GIn	Thr 275	Thr	Cys	Arg	He	280	Asp	Leu	Cys	Ala	Met 285
3751	Glu	Asp	His	Asn		Glu	Gln	Leu	Cvs		Asn	Val	Pro	Glv	-
3753	014				290	014	0		010	295			110	011	300
3757	Phe	Val	Cys	Gln	Cys	Tyr	Ser	Gly	Tyr	Ala	Leu	Ala	Glu	Asp	Gly
3759					305					310					315
3763	Lys	Arg	Cys	Val		Val	Asp	Tyr	Cys		Ser	Glu	Asn	His	_
3765 3769	Cvc	Glu	Uic	Glu	320 Cvs	Va l	λan	Ala	λen	325	Sor	Пτεν	Lan	Cve	330
3771	Cys	Olu	111.5	Oru	335	Vul	ASII	Aiu	пор	340	JCI	- y -	Deu	Cys	345
3775	Cys	His	Glu	Gly	Phe	Ala	Leu	Asn	Pro	Asp	Glu	Lys	Thr	Cys	
3777					350					355					360
3781	Arg	Ile	Asn	Tyr	_	Ala	Leu	Asn	Lys		Gly	Cys	Glu	His	
3783	Crra	Wa 1	N a n	Wo+	365	<i>c</i> 1	Com	m	m	370	7 ~~	C++ a	174 -	7 ma	375
3787 3789	Cys	Val	ASII	мес	380	GIU	ser	Tyr	туг	385	Arg	Cys	HIS	Arg	390
3793	Tyr	Thr	Leu	Asp		Asn	Gly	Lys	Thr		Ser	Arg	Val	Asp	
3795	-			-	395		-	-		400		_		-	405
3799	Cys	Ala	Gln	Gln	_	His	Gly	Cys	Glu		Leu	Cys	Leu	Asn	
3801					410					415					420
	<pre>53555</pre>														
	22222														
3811	??5??	?5??	,555	55555	??+4	+++4	+++??	++++	++++	.55++	++++	+++??	55555	.5	
	33333													+	
	55555												-		
	?+++4 %+++4												-		
	+++++		•							• • • •			• • •	?	
3823	33333	?++1	++++	+ ? %+	++++	+++?	, ,+++	++++	+???	4???	????	5757	2222	?	
	33333														
	33333														
	03333													٠,٠	
	1++++										•				
	++++														
3837	++++	+?%+	+++	+++?	`++ +	++++	+223	??5?	??5?	5555	5555	0777	5555	ì	

E--> E-->

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/665,350A

DATE: 12/19/2001
TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

E>	3839	5???	2+++	++++	+??+	++++	+++?	?+++	++++	+333	3333	5555	3333	3333	3.5	
E>	3841	3333	3333	????·	++++	++++	?%++·	++++	++? 1.	++++	++++	2223	????	3333	??	
E>	3843	?5??	5555	3333 .	?5??	??++	++++	++??-	++++	++++;	??++	++++	++??	????	??	
E>	3845	2222	3333	3333	3333	????	2222	?+++	++++	+?%+	++++	+++?	`+++	++++	+?	
E>	3847	????	??5?	0333	????	????	????	33330	0??+	++++	+++?	2+++	++++	+??+		
E>	3849	++++	+++?	5555	3333	3333	3333	????	3333	2222	????·	++++	++++	?%++		
E>	3851	++++	++2 .	++++	++++	2223										
E>	3853	Glu	Asp	Ser	Phe	Val	Cvs	Gln	Cvs	Ser	Glu	Glv	Phe	Leu	Ile	Asn
	3855					425			•		430	•				435
	3859	Glu	Asp	Leu	Lvs		Cvs	Ser	Ara	Val		Tvr	Cvs	Leu	Leu	
	3861				-1-	440	-1-		5		445	-1-	-1-			450
	3865	Asp	His	Glv	Cvs		Tvr	Ser	Cvs	Val		Met	Asp	Ara	Ser	
	3867			V-1	010	455	-1-		-1-		460			9		465
	3871	Ala	Cvs	Gln	Cvs		Glu	Gly	His	Va 1		Arσ	Ser	Asp	Glv	
	3873		010	01	015	470	02.0				475	5			0-1	480
	3877	Thr	Cvs	Ala	Lvs		Asn	Ser	Cvs	Δla		Glv	Asp	His	Glv	
	3879		0,0		2,5	485	пор	001	O _I D		490	011				495
	3883	Glu	Hic	Ser	Cvc		Ser	Ser	Glu	Δen		Dho	Va 1	Cvs	Gln	
	3885	Olu			Cyb	500	DCI		Olu		505	1 110	,	0,0	0111	510
	3889	Dhe	Glu	Glv	Tur		T.611	Arg	Glu	Δen		T.vc	Thr	Cve	Δτα	
	3891	1 110	JIU	OLY	1 y 1	515	пси	nrg	GIU	пор	520	DyS	1111	Cys	mrg	525
	3895	Luc	Δen	Va 1	Cvc		Δla	Ile	Δen	ніс		Cvc	Glu	Hic	alT	
	3897	пуз	изр	Val	Cys	530	nia	110	пэр	1113	535	Cys	GIU	1113	110	540
	3901	Va 1	Δen	Sar	Δen		Sar	Tyr	Thr	Cvc		Cve	T.011	Glu	Glv	
	3903	Vai	AJII	Jei	КЭР	545	Jer	- y -	1111	Cys	550	Cys	пси	GIU	GLY	555
	3907	Δra	T.OU	λla	Glu		Glv	Lys	Δra	Cvc		Δτα	T.v.e	Aen	Va 1	
	3909	лгу	Dea	лта	GLU	560	GLY	шуз	ni 9	Суз	565	лгу	цуз	кэр	Val	570
	3913	Luc	Sor	Thr	uic		G1 ₃₇	Cys	Glu	Hic		Cve	Va 1	λen	λan	
	3915	цуз	261	1111	nra	575	СТУ	Суз	GIU	1113	580	Cys	Val	NOII	дэц	585
	3919	Λen	Sar	ጥላታም	Tla		T.v.c	Cys	Sar	Glu		Dho	Va 1	T.011	Δla	
	3921	ASII	Jer	111	110	590	цуз	Cys	JCI	OIU	595	1 110	vui	пси	niu	600
	3925	Δen	Glv	Δra	Δra		T.vc	Lys	Cvc	Thr		G1v	Dro	TlΔ	Δen	
	3927	шър	Orl	111 g	1119	605	273	цу	Cys	1111	610	O-1	110	110	шър	615
	3931	Val	Dhe	Val	Tle		Glv	Ser	Lvc	Ser		Glv	Glu	Glu	Δan	
	3933	Val	1 110	141	110	620	GLY	UCI	Lys	JCI	625		OIU	OIU	21511	630
	3937	Glu	Va 1	Va 1	T.v.c		Dhe	Val	Thr	Glv		Tle	Δsn	Ser	T.em	
	3939	Olu	Vul	vai	DyS	635	1.110	, a.	1111	OT.	640	110	110P	UCI	пси	645
	3943	Tle	Ser	Pro	T.vc		Δla	Arq	Va 1	Glv		T.e11	Gln	Tur	Ser	
	3945	110	DCI	110	כעם	650	mu	1119	vai	OL y	655	DCu	0111	111	DCI	660
	3949	Gln	Val	Иic	Thr		Dhe	Thr	T.011	Δrσ		Dhe	Δαη	Ser	Δla	
	3951	GIII	VUI	1113	1111	665	1110	1111	пса	mrg	670	1110	non	DCI	niu	675
	3955	Aen	MΔt	T.ve	T.v.c		Va 1	Ala	Иiс	Mot		ጥህጉ	Met	Glv	T.v.c	
	3957	изъ	nec	цуз	цуз	680	Val	AIU	1113	Mec	685	- y -	nec	OLY	цуз	690
	3961	Sor	Mot	Thr	G1 v		Δla	Leu	T.v.c	Иiс		Dhe	Glu	Δrσ	Ser	
	3963	PCT	TIC L	T 11T	оту	695	AIG	Leu	пyэ	1113	700	FILE	σru	Ary	JEI	705
	3967	Thr	Gln	Glv	Glu		Δla	Arg	Pro	T.e.ii		Thr	Δτσ	Va 1	Pro	
	3969	1111	3111	OT A	GIU	710	AIG	Ary	110	Leu	715	T 11T	пту	VUI	110	720
•	3973	ΔĪρ	Δ1 =	Tle	Va 1		Thr	Asp	Glv	Δτα		Gln	λen	λαρ	Va 1	
	3975	міа	лта	TTG	VQI	725	T 11T	vah	GTÄ	тту	730	GIII	ռոր	rah	val	735
	22/3					123					130					133

Input Set : N:\EBONY'S\ES.txt

```
E--> 3997 ??????++++++++?`++++++?%++++++++?????5???5?o????????
E--> 4001 ?????????????????++++++++;`++++++?%++++++++????????
E--> 4015 ??????????++++++++; `+++++++%+++++++++??o?4????????
E--> 4025 ++++++?%+++++++????
     Glu Trp Ala Ser Lys Ala Lys Ala Asn Gly Ile Thr Met Tyr Ala
E--> 4027
  4029
                       745
             740
  4033
     Val Gly Val Gly Lys Ala Ile Glu Glu Glu Leu Gln Glu Ile Ala
  4035
             755
  4039
     Ser Glu Pro Thr Asn Lys His Leu Phe Tyr Ala Glu Asp Phe Ser
  4041
             770
                       775
                                 780
  4045
     Thr Met Asp Glu Ile Ser Glu Lys Leu Lys Lys Gly Ile Cys Glu
  4047
                       790
             785
  4051
     Ala Leu Glu Asp Ser Asp Gly Arg Gln Asp Ser Pro Ala Gly Glu
  4053
             800
                       805
  4057
     Leu Pro Lys Thr Val Gln Gln Pro Thr Glu Ser Glu Pro Val Thr
  4059
             815
                       820
  4063
     Ile Asn Ile Gln Asp Leu Leu Ser Cys Ser Asn Phe Ala Val Gln
  4065
             830
                       835
     His Arg Tyr Leu Phe Glu Glu Asp Asn Leu Leu Arg Ser Thr Gln
  4069
  4071
             845
                       850
  4075
     Lys Leu Ser His Ser Thr Lys Pro Ser Gly Ser Pro Leu Glu Glu
  4077
                       865
  4081
     Lys His Asp Gln Cys Lys Cys Glu Asn Leu Ile Met Phe Gln Asn
  4083
             875
                       880
  4087
     Leu Ala Asn Glu Glu Val Arg Lys Leu Thr Gln Arg Leu Glu Glu
  4089
             890
                       895
  4093
     Met Thr Gln Arg Met Glu Ala Leu Glu Asn Arg Leu Arg Tyr Arg
E--> 4095
             905
                       910
                                915
  4323 <210> SEQ ID NO: 39
```

Input Set : N:\EBONY'S\ES.txt

```
4325 <211> LENGTH: 390
  4327 <212> TYPE: PRT
  4329 <213> ORGANISM: Homo Sapien
  4333 <400> SEQUENCE: 39
     Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe
  4337
  4341
    Leu Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln
  4343
            20
  4347 Leu Gln Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly
  4349
            35
  4353 Gly Glu Val Val Leu Pro Ala Trp Tyr Thr Leu His Gly Glu Val
  4355
  4359 Ser Ser Ser Gln Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe
  4361
  4365 Lys Gln Lys Glu Lys Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly
  4367
            80
                     85
  4371 Val Thr Thr Ser Lys Pro Gly Val Ser Leu Val Tyr Ser Met Pro
  4373
            95
                    100
  4377 Ser Arg Asn Leu Ser Leu Arg Leu Glu Gly Leu Gln Glu Lys Asp
  4379
            110
                    115
  4383 Ser Gly Pro Tyr Ser Cys Ser Val Asn Val Gln Asp Lys Gln Gly
  4385
            125
                    130
  4389 Lys Ser Arg Gly His Ser Ile Lys Thr Leu Glu Leu Asn Val Leu
  4391
            140
                    145
  4395 Val Pro Pro Ala Pro Pro Ser Cys Arg Leu Gln Gly Val Pro His
  4397
            155
                    160
  4401 Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser Pro Arg Ser Lys
  4403
            170
                    175
sane
sel p20
```

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/09/665,350A**DATE: 12/19/2001

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

```
same
E--> 4517 ??????+++++++?%+++++++?\+++++++???
E--> 4519 Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro Ser Phe Gln
 4521
     185
          190
 4525
  Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser Leu Ser
 4527
     200
          205
 4531 Leu Thr Asn Leu Ser Ser Met Ala Gly Val Tyr Val Cys Lys
 4533
 4537
  Ala His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu
 4539
     230
          235
 4543
  Val Ser Thr Gly Pro Gly Ala Ala Val Ala Gly Ala Val Val
 4545
     245
          250
 4549
  Gly Thr Leu Val Gly Leu Gly Leu Ala Gly Leu Val Leu Leu
 4551
     260
          265
 4555
  Tyr His Arg Arg Gly Lys Ala Leu Glu Glu Pro Ala Asn Asp Ile
```





Input Set : N:\EBONY'S\ES.txt

				0	utpu	t Se	t: N	: \CR	F3/1	2192	001/	1665	350A	.raw		
	4557					275					280					285
	4561	Lvs	Glu	Asp	Ala		Ala	Pro	Ara	Thr		Pro	Trp	Pro	Lvs	
	4563	-1 -				290			9		295				_15	300
	4567	Ser	Asp	Thr	Ile		Lvs	Asn	Glv	Thr		Ser	Ser	Val	Thr	
	4569		~			305	•		-		310					315
	4573	Ala	Arg	Ala	Leu	Arg	Pro	Pro	His	Gly	Pro	Pro	Arq	Pro	Gly	Ala
	4575		_			320				-	325		_		-	330
	4579	Leu	Thr	Pro	Thr	Pro	Ser	Leu	Ser	Ser	Gln	Ala	Leu	Pro	Ser	Pro
	4581					335					340					345
	4585	Arg	Leu	Pro	Thr	Thr	Asp	Gly	Ala	His	Pro	Gln	Pro	Ile	Ser	Pro
	4587					350					355					360
	4591	Ile	Pro	Gly	Gly	Val	Ser	Ser	Ser	Gly	Leu	Ser	Arg	Met	Gly	Ala
	4593					365					370					375
	4597	Val	Pro	Val	Met	Val	Pro	Ala	Gln	Ser	Gln	Ala	Gly	Ser	Leu	Val
•	4599					380					385					390
	5017											_				
	5019	<2112	> LE	NGTH	: 69	0					25					
	5021	<212	> 'I'Y'	PE: I	PRT					72	123					
	5019 5021 5023 5027 5029	<213	> ORG	JANI	SM: I	HOMO	Sap:	ıen	M	,						
	5027	<4002	> SE(ν~α Συπνο	JE: 4	49	T 011	Tou	375.1	37.0.1	Dho	Com	mh m	T	т	N
	5031	Met 1	гуу	ALG	Leu	P10 5	ьeu	ьец	Val	vaı	10	ser	THE	Leu	ьеu	
	5035		Sor	Ттт	Thr	_	λen	Cvc	Thr	Tvc		Dro	CTTC	Leu	Dro	15
	5037	Cys	DET	1 Y 1	1111	20	ASII	Cys	1111	пуз	25	PIO	Cys	Leu	PIO	30
	5041	Δla	Lvs	Cvs	Glu		Arσ	Δsn	Glv	Tlρ		Δla	Cve	Tyr	Cvs	
	5043	1114	1,5	CID	O_Lu	35	1119	11511	O T Y	110	40	mu	Cys	1 <u>7</u> 1	Cys	45
	5047	Met	Glv	Phe	Ser		Asn	Glv	Va1	Thr		Cvs	Glu	Asp	Asp	
	5049		_			50		. 1			55	- 1 -			1	60
	5053	Glu	Cys	Gly	Asn	Leu	Thr	Gln	Ser	Cys	Gly	Glu	Asn	Ala	Asn	Cys
	5055					65					70					- 75
	5059	Thr	Asn	Thr	Glu	Gly	Ser	Tyr	Tyr	Cys	Met	Cys	Val	Pro	Gly	Phe
	5061					80					85					90
	5065	Arg	Ser	Ser	Ser		Gln	Asp	Arg	Phe	Ile	Thr	Asn	Asp	Gly	Thr
	5067					95					100					105
	5071	Val	Cys	Ile	Glu		Val	Asn	Ala	Asn		His	Leu	Asp	Asn	
	5073		-1			110	~1	_	_		115	_,	_	7	_	120
	5077	Cys	тте	Ата	Ата		шe	Asn	rās	Thr		Thr	Lys	Ile	Arg	
	5079 5083	Tla	T a	C1	D==0	125	7 1 a	T	T	01 =	130	17 7	m	3	3	135
	5085	ire	ьуs	GIU	PIO		Ата	Leu	Leu	GIN		vaı	Tyr	Arg	Asn	
	5089	va l	Thr	7 an	Ton	140	Dro	шhъ	7 an	т1.	145	mh w	П	Ile	C1	150
	5091	Vai	1111	кэр	neu	155	PIO	1111	АЗР	116	160	1111	тут	тте	GIU	
	5095	Len	Δla	Glu	Ser		Ser	Leu	Len	Glv		Tive	Δen	Asn	Thr	165
	5097	1-u		JIU	JU1	170		Leu	шeu	O T Y	175	פעם	ស១ព	กอน	T 11T	180
	5101	Ser	Ala	Lvs	Asp		Leu	Ser	Asn	Ser		Leu	Thr	Glu	Phe	
	5103			-1-	F	185				~ ~ ~	190			J_4		195
	5107	Lys	Thr	Val	Asn		Phe	Val	Gln	Arq		Thr	Phe	Val	Val	
	5109	4				200				٠,	205					210
	5113	Asp	Lys	Leu	Ser	Val	Asn	His	Arg	Arg	Thr	His	Leu	Thr	Lys	
		_							_	-					-	



RAW SEQUENCE LISTING

DATE: 12/19/2001

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\1665350A.raw

PATENT APPLICATION: US/09/665,350A

	5115					215					220					225
	5119	Met	His	Thr	Val	Glu	Gln	Ala	Thr	Leu	Arg	Ile	Ser	Gln	Ser	Phe
	5121					230				•	235					240
	5125	Gln	Lys	Thr	Thr	Glu	Phe	Asp	Thr	Asn	Ser	Thr	Asp	Ile	Ala	Leu
	5127					245		_			250		_			255
	5131	Lys	Val	Phe	Phe	Phe	Asp	Ser	Tyr	Asn	Met	Lys	His	Ile	His	Pro
	5133					260	-		_		265	-				270
	5137	His	Met	Asn	Met	Asp	Gly	Asp	Tyr	Ile	Asn	Ile	Phe	Pro	Lys	Arq
	5139					275	-	_	_		280				-	285
	5143	Lys	Ala	Ala	Tyr	Asp	Ser	Asn	Gly	Asn	Val	Ala	Val	Ala	Phe	Leu
	5145	-			•	290			-		295					300
E>	5149	++++	++++7	??++	++++	++??+	++++	++++	2222	2222	????	?????	?????	2222	??	
	5151	????	???+-	++++	+++?	8+++	++++	+?`+-	++++	++??	??5??	????	5????	????4	1?	
E>	5153	2222	????	????	2+++	++++	+??++	++++	++??	++++	++++	+2222	2777	?????	??	
E>	5155	33333	2222	????	2222	22224	++++	+++;	?%+++	++++	++? \+	++++	++++	2777	??	
E>	5157	2222	2222	2222	2222	2222	2222	??++	++++	+??+	++++	++++7	??++	++++	+	
E>	5159	2222	2222	????	2222	2222	2222	2777	?????	++++	++++	h?%++	++++	+++		
E>	5161	? \++-	++++	++22	2222	2222	2222	22251	25252	2222	2502	2+++	++++	++?		
E>	5163	2+++-	++++	+22+-	++++	+++??	2222	2222	2222	2222	2222	2222	2222	222		
	5165														??	
	5167														-	
	5169															
	5171														-	
_	5173														-	
	5175													+++?	•	
-	5177												++++	++2		
-	5179	-										•	2222	222		
	5181	-		-										• • •		
	5183															
	5185															
	5187												•			
	5189												•			
	5191															
	5193									-						
_	5195											•				
	5197															
	5199											• •				
	5201												•			
	5203												• •			
	5205															
	5207												-			
	5209															
	5211												-			
	5211												-			
	5215												•			
		?????											•			
E>	5219															
	5221						-									
	5223															
/	J & & J				1 : :								•			

Input Set : N:\EBONY'S\ES.txt

E>	5225	??????4????????????????????????????????
E>	5227	???????????????????????????????????????
	5229	????????4??????????????????????????????
E>	5231	????????????????????????4?????????????
E>	5233	??????????????????????4????????????????
		???????????????????????????????????????
		??????????????4????????4???????????????
		?4?????????4???????????????????????????
		???????????????????????????????????????
		???????????????????????????????????????
		???????????????????????????????????????
		???????????????????4???????????????????
		???????????????????????????????????????
		???????????????????????????????????????
		???????????????????????????????????????
		????????????????4??????????????????????
		??????????????????????????4???????????
E>	5259	???????????????????????????????????????
E>	5261	??????????4????????????????????????????
	5263	???????????????????????????????????????
E>	5265	?????????4???????????????????????????
E>	5267	???????????4????????4??????????????????
E>	5269	???????????????????????????????????????
E>	5271	???????????????????????????????????????
E>	5273	?????????????????????4?????????????????
E>	5275	????????4?????????4????????????????????
E>	5277	???????????????????????????????????????
E>	5279	???????????????????????????????????????
E>	5281	?5???5?5?????????5?5??+?+++++++++++++++
		????????????????????????++++++++
		+++++?????????5????????????????????
		++++?+++++++++++++
		+?%+++++++?`++++++???5??????5???????????
		?+++++++?++++++++++++++++++++++++++++++
		??????+++++++?%+++++++;`+++++++;??????????
		???????o????+++++++++++++++++++++++++++
		?????????????????++++++++?%++++++++++++
		????????????????????
		???????????????????????????
		`+++++++?????????????????????????????
		++++++??++++++?????????????????????????
		++++++?%+++++++++*, `++++++++*, `????????????????????????????????????
		5????+++++++??++++++??++++++???????????
		??????????+++++++;%+++++++;`+++++++;??o???5??????
		?????????5?????+++++++??++++++??++++++??????
	_	????????????????????++++++++;%+++++++;`+++++++
E>	5317	?????????5???o???????????+++++++??++++++??+
E>	5319	++++++????????????????????????????
E	5321	++++++?`++++++?????4???4?0???0??????????





Input Set : N:\EBONY'S\ES.txt

E>	5323	+++??	?+++	++++	+??+-	++++·	+++?	2222	2355	2222	7777	2223	5555	2222	?	
E>	5325	???+-	++++	+++?	%+++ ·	++++	+?`++	++++	+++?	???						
E>	5327	Tyr	Tyr	Lys	Ser	Ile	Gly	Pro	Leu	Leu	Ser	Ser	Ser	Asp	Asn	Phe
	5329					305					310					315
	5333	Leu	Leu	Lys	Pro	Gln	Asn	Tyr	Asp	Asn	Ser	Glu	Glu	Glu	Glu	Arg
	5335					320					325					330
	5339	Val	Ile	Ser	Ser	Val	Ile	Ser	Val	Ser	Met	Ser	Ser	Asn	Pro	Pro
	5341					335					340					345
	5345	Thr	Leu	Tyr	Glu	Leu	Glu	Lys	Ile	Thr	Phe	Thr	Leu	Ser	His	Arg
	5347					350					355					360
	5351	Lys	Val	Thr	Asp	Arg	Tyr	Arg	Ser	Leu		Ala	Phe	\mathtt{Trp}	Asn	Tyr
	5353					365					370					375
	5357	Ser	Pro	Asp	Thr	Met	Asn	Gly	Ser	${\tt Trp}$	Ser	Ser	Glu	Gly	Cys	
	5359					380					385					390
	5363	Leu	Thr	Tyr	Ser		Glu	Thr	His	Thr		Cys	Arg	Cys	Asn	
	5365					395					400					405
	5369	Leu	Thr	His	Phe		Ile	Leu	Met	Ser		Gly	Pro	Ser	Ile	
	5371					410			_		415		_		_	420
	5375	Ile	Lys	Asp	Tyr		Ile	Leu	Thr	Arg		Thr	Gln	Leu	GLY	
	5377			_	_	425	_	_		~ 1	430	1	-1	-1	-1	435
	5381	Ile	Ile	Ser	Leu		Cys	Leu	Ala	IIe		IIe	Phe	Thr	Phe	
	5383	-1		_		440	-1	_	~1	_	445	ml.	 1 -		.	450
	5387	Phe	Phe	Ser	GIu		Gln	ser	Thr	Arg		Thr	шe	HlS	ràs	
	5389	_	_	_	_	455	5 1	- .		a1	460	**- 1	nl	.	**- 1	465
	5393	Leu	Cys	Cys	Ser		Phe	Leu	Ата	GIU		vaı	Pne	Leu	vaı	
	5395	T1 -	3	m la	3	470	3	T	T	Dha	475	G = m	т1.	т1.	71.	480
	5399	тте	ASN	Thr	ASI		Asn	гàг	ьeu	Phe	490	ser	тте	тте	Ата	
	5401	Tou	T 011	ni a	m	485	Phe	T 011	7 l a	7.1 -		712	T rr	Mot	Ctra	495
	5405 5407	Leu	Leu	птѕ	TÀT	500	Pile	Leu	на	нта	505	нта	пр	Met	Cys	510
	5411	C1.11	C1,,,	т1 о	шіс		Tyr	T 011	т1 о	17 a 1		Clu	V a l	Tlo	Фил	
	5413	GIU	СТУ	116	птэ	515	тут	пеп	116	Val	520	Gry	Val	116	тут	525
	5417	Lare	Glv	Dho	T.013		Lys	Δen	Dh⊖	Ψwr		Dhe	Glv	Tur	Len	
	5419	цуз	GLY	riic	LCu	530	цуз	ASII	1110	-11-	535	I IIC.	OLY.	- 1 -	шец	540
	5423	Pro	Δla	Val	Va 1		Gly	Phe	Ser	Ala		Leu	Glv	Tvr	Arσ	
	5425	110			,	545	0-1				550		0 -1	-1-	5	555
	5429	Тvr	Glv	Thr	Thr		Val	Cvs	Trp	Leu		Thr	Glu	Asn	Asn	
	5431	-1-	1			560		-1-			565					570
	5435	Ile	Trp	Ser	Phe		Gly	Pro	Ala	Cvs		Ile	Ile	Leu	Val	
	5437					575	2	-		-	580					585
	5441	Leu	Leu	Ala	Phe	Gly	Val	Ile	lle	Tyr	Lys	۷al	Phe	Arq	His	Thr
	5443					590				•	595			_		600
	5447	Ala	Gly	Leu	Lys	Pro	Glu	Val	Ser	Cys	Phe	Glu	Asn	Ile	Arg	Ser
	5449		_		_	605				_	610					615
		++++														
E>		?5?5?														
		33333														
		57777														
E>	5461	33333	.555	5555	22331	5555	33333	?++	++++	++3,+	++++	+++;	8+++	++++	++	

Input Set : N:\EBONY'S\ES.txt

```
E--> 5463 ???????o???4?????????????????+++++++??++++++?
E--> 5493 ???????????????????????++++++++; \++++++++
E--> 5499 ++++++?%+++++++????
E--> 5501 Cys Ala Arg Gly Ala Leu Ala Leu Leu Phe Leu Leu Gly Thr Thr
  5503
              620
                         625
  5507
     Trp Ile Phe Gly Val Leu His Val Val His Ala Ser Val Val Thr
  5509
              635
                         640
  5513 Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln Gly Met Phe Ile
  5515
              650
  5519 Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu Glu Tyr
  5521
              665
                         670
  5525
     Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys Phe Gly Cys Leu Arg
ਸ਼ੀ∤->> 5527
              680
  5935 <210> SEQ ID NO: 59
                       pr 26-27
  5937 <211> LENGTH: 216
  5939 <212> TYPE: PRT
  5941 <213> ORGANISM: Homo Sapien
  5945 <400> SEQUENCE: 59
     Met Arg Ser Gly Cys Val Val Val His Val Trp Ile Leu Ala Gly
  5947
  5949
  5953
     Leu Trp Leu Ala Val Ala Gly Arg Pro Leu Ala Phe Ser Asp Ala
  5955
               20
  5959
     Gly Pro His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg
  5961
     His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu
  5965
  5967
  5971
     Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser
  5973
               65
                                     75
  5977
     Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
  5979
               80
     Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
  5983
  5985
               95
                         100
  5989
     Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/665,350A
DATE: 12/19/2001
TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

	5991					110					115					120
	5995	Ala	Phe	Glu	Glu	Glu	Ile	Arg	Pro	Asp	Gly	Tyr	Asn	Val	Tyr	Arg
	5997					125					130					135
	6001	Ser	Glu	Lys	His	Arg	Leu	Pro	Val	Ser	Leu	Ser	Ser	Ala	Lys	Gln
	6003					140					145					150
E>	6005	++++	++++	?%+++	+++	++? `-	++++	++++7	23303	23333	5555	25???	5555	33331	5.5	
E>	6007	3355	??++-	++++	++??-	++++	++++;	??+++	++++	++???	5555	2333	5555	33331	5.5	
E>	6009	3333.	33333	33333	+++	++++	+?%+-	++++	+++?	`+++	++++	-555	??5??	??5??	5.5	
E>	6011	??5?	33333	5555	??5?!	255+	++++	+++??	2+++	++++	+55+	+++-	+++??	, , , , , ,	5.5	
E>	6013	5555.	33333	5555	5555	5555	5555	33++4	++++	++?%-	++++	+++;	7+++	++++	++	
E>	6015	3333.	33333	55555	5555	5555	5555	5555	5555	5555	5555	5333	5555			
E>	6017	3333.	33333	5555	5555	5555	5555	5555	5555	??4??	55555	,333	5.5			
E>		3333														
		????														
		3333														
		33333														
_		33333														
		3333														
_ :		3333														
		3333														
		3333										-	-			
		3333														
		33333														
		2222														
_		2222	-												W	ne
		3333; 3333;												,		
		3333														
		2222														
		3333											-			
		3333														
		3333														
		3333														
E>	6061	33333	2222	2222	2777	2333	?????	2222	2333	????	?????	????				
E>	6063	2222	33333	2333	2222	2222	2222	2222	2333	2333	2333	2222	5.5			
E>	6065	33333	?????	3333	????	2222	2222	2222	23333	3333	?????	2222	5.5			
E>	6067	4????	33333	???4?	.5555	.5551	5555	33333	3333	. 5 5 5 5	5555	3333	5.5			
E>	6069	33333	55555	3333	5555	,5555	55555	3333	5555	3333	3333	3333	5.5			
E>	6071	33333	55555	3333	3333	, 5, 5, 5, 5	55555	3333	5555	3333	3333	3333	.3			
E>	6073	3555	55555	.3333	5555	.5555	53333	55555	5555	5555	,3,3,3,3	3333	5.5			
_		33333											-			
E>	6077	33333	55555	,3333	.3333	3333	55555	,3333	3333	35,53	3333	3333	5.5			
		33333											-			
E>	6081	33333	55555	4???	.3333	3334	15555	,3,3,3,3	, 5, 5, 5, 5,	.3333	, 5, 5, 5, 5,	.3333	.5			•
		55553														
		33333											•			
		33333											-			
		33333														
E>	6091	33333	???4?	. 5.5.5.5	3333	. 5.5.5.5	,3333	,3333	,3333	.3333	. 5.5.5.5	.3333	. 5			

Input Set : N:\EBONY'S\ES.txt

```
som
E--> 6125 ?????????????+++++++++++++++*, \+++++++++++
E--> 6127 ?????????????????+++++++++++++++++++?
E--> 6129 ??????????????????????+++++++?%++++++?`+++++++
E--> 6135 %+++++++? \+++++++???
E--> 6137
    Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe
  6139
            155
                     160
  6143 Leu Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg
  6145
            170
                     175
  6149 Gly His Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp
  6151
            185
                     190
  6155 Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg
  6157
            200
                     205
  6161
    Ser Pro Ser Phe Glu Lys
 S 6163
  6347 <210> SEO ID NO: 64
  6349 <211> LENGTH: 312
                   pr 27-28
  6351 <212> TYPE: PRT
  6353 <213> ORGANISM: Homo Sapien
  6357 <400> SEQUENCE: 64
  6359 Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Arg
  6361
             5
                      10
  6365
     Tyr Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser
  6367
             20
  6371 Ala Pro Lys Asp Gln Gln Val Val Thr Ala Val Glu Tyr Gln Glu
  6373
                      40
  6377
     Ala Ile Leu Ala Cys Lys Thr Pro Lys Lys Thr Val Ser Ser Arg
  6379
            50
                      55
  6383
     Leu Glu Trp Lys Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr
  6385
            65
```

Input Set : N:\EBONY'S\ES.txt

```
E--> 6395 ??????????????????++++++++?%++++++?`+++++++
Dane
E--> 6451 ???????+++++++++%++++++++?`++++++???5?5?o??????5???
E--> 6455
   Gln Gln Thr Leu Gln Gly Asp Phe Lys Asn Arg Ala Glu Met Ile
 6457
         80
               85
   Asp Phe Asn Ile Arg Ile Lys Asn Val Thr Arg Ser Asp Ala Gly
 6461
 6463
         95
               100
 6467
   Lys Tyr Arg Cys Glu Val Ser Ala Pro Ser Glu Gln Gly Gln Asn
 6469
        110
               115
 6473
   Leu Glu Glu Asp Thr Val Thr Leu Glu Val Leu Val Ala Pro Ala
 6475
        125
               130
 6479
   Val Pro Ser Cys Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val
 6481
               145
 6485
   Val Glu Leu Arg Cys Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu
 6487
        155
               160
   Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu Glu Asn Pro Arg
 6491
 6493
               175
        170
 6497
   Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met Asn Thr Lys
 6499
        185
               190
 6503
   Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp Thr Gly
 6505
        200
               205
                      210
```





DATE: 12/19/2001 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/665,350A TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

```
6509
         Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg Cys
    6511
                                         220
                                                          225
    6515
         Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Ile
    6517
                       230
                                         235
    6521
         Ile Ala Ala Val Val Val Ala Leu Val Ile Ser Val Cys Gly
    6523
                       245
                                         250
    6527 Leu Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu
    6529
                       260
                                        265
    6533
         Thr Ser Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met
    6535
                       275
                                        280
    6539 Ser Glu Asn Val Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp
    6541
                       290
                                        295
    6545
         Lys Ala Ala Gly Gly Ser Arg Gly Gln Glu Phe
   > 6547
                       305
    7255 <210> SEQ ID NO: 71
    7257 <211> LENGTH: 259
    7259 <212> TYPE: PRT
    7261 <213> ORGANISM: Homo Sapien
    7265 <400> SEQUENCE: 71
         Met Asn Leu Val Asp Leu Trp Leu Thr Arg Ser Leu Ser Met Cys
    7269
                                         10
    7273
         Leu Leu Gln Ser Phe Val Leu Met Ile Leu Cys Phe His Ser
    7275
    7279
         Ala Ser Met Cys Pro Lys Gly Cys Leu Cys Ser Ser Ser Gly Gly
    7281
                        35
                                         40
    7285
         Leu Asn Val Thr Cys Ser Asn Ala Asn Leu Lys Glu Ile Pro Arg
    7287
                        50
    7291 Asp Leu Pro Pro Glu Thr Val Leu Leu Tyr Leu Asp Ser Asn Gln
    7293
    7297
         Ile Thr Ser Ile Pro Asn Glu Ile Phe Lys Asp Leu His Gln Leu
    7299
                        80
                                         85
    7303 Arg Val Leu Asn Leu Ser Lys Asn Gly Ile Glu Phe Ile Asp Glu
    7305
                        95
                                        100
    7309 His Ala Phe Lys Gly Val Ala Glu Thr Leu Gln Thr Leu Asp Leu
    7311
                       110
                                        115
    7315
         Ser Asp Asn Arg Ile Gln Ser Val His Lys Asn Ala Phe Asn Asn
    7317
                       125
                                        130
    7321
        Leu Lys Ala Arg Ala Arg Ile Ala Asn Asn Pro Trp His Cys Asp
    7323
                       140
                                        145
    7327
         Cys Thr Leu Gln Gln Val Leu Arg Ser Met Ala Ser Asn His Glu
    7329
                                        160
         Thr Ala His Asn Val Ile Cys Lys Thr Ser Val Leu Asp Glu His
    7333
    7335
                       170
                                        175
m 30-32
E--> 7343 ?????????????????++++++++; `++++++; %+++++++;
E--> 7347 ?????????????????????????????+++++++; \++++++
```

Input Set : N:\EBONY'S\ES.txt

E> 7349 %+++++++???????o??????????5?5?5??????+++++++??+
E> 7351 ++++++++++++++++++++?????????????????
7353 ++++++?`+++++++?%++++++++??????????????
E> 7355 0????++++++++++++++++++++++++++++++++
E> 7357 ??????????++++++++?`+++++++?%++++++????????
E> 7359 ???o?o?5????????++++++++??++++++??++++++??????
E> 7361 ?????????????????????++++++++; `+++++++*
E> 7363 ??5????????????????????????++++++++??++++++
E> 7365 ++++++????????????????????????????++++++
E> 7367 ++++++?%+++++++?????5??????????????????
E> 7369 ++++??+++++++??+++++++???????????????
E> 7371 +++++? \ +++++++??????????????????????
E> 7373 ?????????????????????????????????
E> 7375 ??????????????????????????????????
E> 7377 ?????????????????????????????????
E> 7379 ??????????????????????????????????
E> 7381 ????????????????????????????????????
E> 7383 ??????????????????????????????????
E> 7385 ?????????4???????????????????????????
E> 7387 ??????????????????????????????????
E> 7389 ????????????????????????????????????
E> 7391 ???4?????????????????????????????????
E> 7393 ??????????????????????????????????
E> 7395 ????????????????????????????????????
7397 ???????????????????????????????????
E> 7399 ??????????????????????????????????
E> 7401 ??4?????????????????????????????????
E> 7403 ????????????????????????????????????
E> 7405 ????????????????????????????????????
7407 ???????????????????????????????????
E> 7409 ????????????????????????????????????
E> 7411 ??????????????????????????????????
E> 7413 ????????????????????????????????????
E> 7415 ????????????????????????????????????
E> 7417 24????????????????????????????????????
E> 7419 ??????4?????????????????????????????
E> 7421 ????????????????????????????????????
E> 7423 ????????????????????????????????????
7425 ????????????????????????????????????
E> 7427 ??????????????????????????????????
E> 7429 ????4????????4??????????????????????
E> 7431 ????????????????????????????????????
E> 7433 ??????????????????????????????????
E> 7435 ????????????????????????????????????
E> 7437 ??????????????4???????????????????
E> 7439 ??4?????????????????????????????????
E> 7441 ??????????????????????????????????
E> 7443 ??????????????????????????????????
E> 7445 ??????????????????????????????????



DATE: 12/19/2001 PATENT APPLICATION: US/09/665,350A TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

	7447	????4??????4???????????????????????????
E>	7449	????????????????????????4??????????????
E>	7451	???????????????????????????????????????
E>	7453	??????????????4???o?4???5???????5?5??5??+
E>	7455	?++++++?+++++++++++++++++++++++++++++++
E>	7457	?????+++++++?%+++++++; `++++++;????5??????????????????
E>	7459	
E>	7461	???????????????+++++++?%+++++++; `+++++++???5?????
E>	7463	?????5???????????5??+++++++++++++++++++
E>	7465	?????????????????????????
E>	7467	++++????????5????5?0?5???????5??++++++++
_		+??+++++++?????????????????????????????
_		?%+++++++?`++++++???????5?5?5?????5???5???
_		?++++++??++++++??++++++++??????????????
_		???????+++++++?%+++++++?`+++++++??5?5??????????
_		????????5???+++++++??+++++++??+++++++??????
		?????????????????+++++++*
		??o???o???5????5?5???5?4??+++++++??++++++++++
_		+????????????????????????????
		?`+++++++???5?????5???????????????????
_		?++++++??++++++????????????????????????
	7489	
	7491	
E>		????????????+++++++;%+++++++;`+++++++;??????????
E>		???????o??????4?5??+++++++?`++++++?%++++++???5??
E>		25?5????????4???5?5????++++++++??+++++++
E>		???????????????????????????++++++++
E>		?%+++++++??????????????????????????
_	7503	
E>		?+++++++?`++++++?%++++++++???5?????5??????????
E>		5??????+++++++??+++++++??+++++++????????
E>		????????????++++++++?`+++++++**
E>		?4?????????????4??++++++;?++++++;?+++++;?????
E>		???????????????????????
		+??????????????????????
		?++++++?????????????????????????????
		`++++++*
		++++++??++++++??++++++++???????????????
E>		??????++++++?`++++++?%+++++++??????????
E>		??????5???+++++++??++++++;?+++++++????????
-		????????????????+++++++?`++++++++++++++
		??????5??????????????++++++++??++++++??++++++
		???????????????????????????
-		%+++++++???????????????????????????
		++++++2?+++++++2???????????????????????
		++++++?`+++++++++++++++++++
		?????+++++++??++++++;?++++++++;????????
		??????????++++++++?`++++++?%+++++++???????5?????
		?????0??????????+++++++?%++++++++**
- •		

Input Set : N:\EBONY'S\ES.txt

E>	7545	3333	3333	3333	5555	5555	2523.	++++	++++	55++-	+++-	++33-	++++	++++;	5.5	
E>	7547	3333	3333	3333	3333 ,	3333	5555	5555	555+	++++	+++?	8+++	++++	+, ,+		
E>	7549	++++	+++3	3555	??5?	3333	5?5?	5555	5555	5555	555+-	++++	+++?	?+++	+	
E>	7551	++++	??++·	++++	++33.	3333 ,	3333	5555	5555	33333	5555	3333	555+	++++		
•	7553	+++?	8+++	++++	+3,+	++++	+++?'	????	?? <mark>??</mark> ?	????!	5???	????	????	??5?		
E>	7555	???+	++++	+++?	?+++	++++	+??+	++++	+++?	5555	3333	2222	3333	2222	5.5	
E>	7557	3333	3333	??++	++++	++?%	++++	++++;	? ++-	++++	++??	????	???5	????	3.5	
E>	7559	3333	3333	???5	????·	++++	++++	??++-	++++	++??-	++++	++++;	????	????	??	
E>	7561	2222	3333	3333	3333.	3333	5555	????	????	????	???4	????	233			
E>	7563	2224	3333	3333	3333	3333	2222	2222	2277	????	????	????	??			
E>	7565	3333	3333	2224	5555	3333	2742	2222	2222	2222	2222	2222	??			
	7567			_												
	7569	• • •														
	7571															
	7573															
T	7575															
	7577															
-	7579		•													
	7581															
	7583		-													
	7585															
	7587															
	7589															
	7591									_						
	7593															
	7595										_					
	7597				-											
_	7599															
	7601															
E>	7603						_						_		_	
		????							_		_					
	7607												_			
_	7609														++	
	7611															
	7613															
	7615															
E>	7617						_									
		????														
	7621													2222	? ?	
	7623													-	-	a
E>		Ата	GTĀ	Arg	Pro		Leu	Asn	АТа	Ата		Asp	Ата	Asp	Leu	_
	7627		- -	D.	T	185	m 1	m1	1	m	190	Me+	T	17- 7	m1	195
	7631	ASN	ьeu	Pro	ьys	_	rnr	Thr	ASP	туr		мет	ьeu	val	rnr	
	7633		<i>α</i> 3	m	D1	200	M2.4	77. 3	- 1 -	a	205	17e 3	17- 7		m	210
	7637	Phe	GIY	тrр	ьие		мет	Val	тте	ser	_	vaı	vaı	туr	туr	
	7639	_	~ 3	_	a :	215	-		_		220	- .	a 3	_		225
	7643	Arg	GIn	Asn	GIn		Asp	Ala	Arg	Arg		Leu	GLu	Tyr	Leu	
	7645		_	_	_	230	~ 3	_	_		235		_	_	_	240
	7649	Ser	Leu	Pro	Ser	Arg	GIn	Lys	ьys	Ala	Asp	Giu	Pro	Asp	Asp	тте





Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\1665350A.raw

7651 250 245 255 E--> 7655 Ser Thr Val Val 7855 <210> SEQ ID NO: 73 7857 <211> LENGTH: 620 7859 <212> TYPE: PRT 7861 <213> ORGANISM: Homo Sapien 7865 <400> SEOUENCE: 73 7867 Met Gln Val Ser Lys Arg Met Leu Ala Gly Gly Val Arg Ser Met 7869 1 7873 Pro Ser Pro Leu Leu Ala Cys Trp Gln Pro Ile Leu Leu Leu Val 7875 20 25 7883 ???????????????????++++++++?*+++++++* see pp 34-35





Input Set : N:\EBONY'S\ES.txt

E>	7953	?????++++++;%++++++; `++++++???
E>	7955	++++++7%++++++?`++++++???????5?5???????????????
E>	7957	?5????+++++++??++++++??+++++++?????????
E>	7959	???????????++++++++*%+++++++; `+++++++???5??????????
E>	7961	?????5???????????+++++++??++++++??++++++
E>	7963	???????????????????????+++++++?%+++++++
E>	7965	?????5?5????5????????????????
E>	7967	?++++++??????????????????????????????
		%+++++++?`++++++???????????????????????
		++++++??++++++??++++++?????????????????
		??????+++++++?%+++++++?`+++++++???5?4???5?????????
_		?????5?????++++++++??++++++++??+++++++??????
		????????????????+++++++?%++++++++**
		?????????o???????????+++++++??++++++??++++++
		??????????????????????????
_		\++++++++?????????????????????????????
		???????????????????4???????????????????
		777777777777777777777777777777777777777
		???????????????????????????????????????
		???????????????????????????????????????
		???????????????????????????????????????
		???????????????????????????????????????
		7??????????????????????????????????????
		777777777777777777777777777777777777777
		???????????????4???????????????????????
		???????4???????????????????????????????
		??????????????????????????????????????
_		????????????????????4??????????????????
		???4????????4??????????????????????????
		777777777777777777777777777777777777777
		???????????????????????????????????????
		???????????????????????????????????????
		?????????4?????????????????????????????
		4??????????????????????????????????????
		????????????4?????????4????????????????
		777777777777777777777777777777777777777
		???????????????????????????????????????
		????????4??????????????????????????
		???????????????????????????????????????
		???????????????????????????????????????
		?????????????????????????4????????????
E>	8035	?????4?????????????????????????????????
E>	8037	???????????????????????????????????????
		??????????????????????????4???????????
		??????????????4????????????????????????
		?4???????????????????????4?????????????
		???????????????????????????????????????
		?????????????????????????????????????
E>	8049	???????????????????????????????????????

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\1665350A.raw

```
8079
 E-->
8111 ??????????????????????+++++++?`++++++?%+++++++
8113 ???4??????????????????????????
E-->
8117
 E--> 8125 ?????????????????++++++++?`+++++?%+++++++???????
E--> 8143 ???????????????????????+++++++;`++++++?%++++++++
E--> 8145 ???????4?5?5????????????????+++++++??++++++??+
```

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

> Use of n and/or Xaa has been detected in the Sequence Listins: Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

delete trèse non-ASUI characters

```
ĐÏ□à;
ŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸ
\square\square\square\square\square\square\squareV\square\square\square\square\square\square; \square\square\square\square\square\square\square; \square\square\square\square\square\square\square0; \square\square\square\square\square\square\square0; \square\square\square\square\square\square\square0; \square\square\square\square\square\square\square\square\square\square\square\square\square0; \square\square\square\square\square0; \square\square\square\square0; \square\square\square\square0; \square\square\square1
ÄBBBBB' ÄBBBBB' ÄBB-BBB; ÄBBÔBBB" ÅBBÔBBB #BB$BBÜÇBB - BBBÜÉBB#BBÖ< #BBBBBB
^{\circ} ADDOCTOROUGH AND A TOTAL CONTRACTOR OF THE CONTRACTOR OF T
^{\circ} ÁDAÃODO ^{\circ} ÁDACOMBODO DO A ^{\circ} ÁDACOMO SERVIDA A SERVIDA A ADACOMO DE ALABORA DO ASERTA A ADACOMO DE ALABORA A ADACOMO DE ADACOM
Sequence
Listing
```

<110> Genentech, Inc. Ashkenazi, Avi Botstein, David Desnoyers, Luc Eaton, Dan L. Ferrara, Napoleone Filvaroff, Ellen Fong, Sherman Gao, Wei-Qiang Gerber, Hanspeter Gerritsen, Mary E. Goddard, A. Godowski, Paul J. Grimaldi, Christopher J. Gurney, Austin L. Hillan, Kenneth, J. Kljavin, Ivar J. Mather, Jennie P. Pan, James Paoni, Nicholas F. Roy, Margaret Ann Stewart, Timothy A. Tumas, Daniel Williams, P. Mickey Wood, William, I.

<120> Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same

<130> 10466-14

<140> 09/665,350 <141> 2000-09-18

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<151> 2000□91□95
<160> 423
<210> 1
<211> 1825
<212> DNA
<213> Homo Sapien
<400> 1
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 cctcgacctc gacccacgcg tccgggccgg agcagcacgg ccgcaggacc 100
```

VERIFICATION SUMMARY DATE: 12/19/2001 PATENT APPLICATION: US/09/665,350A TIME: 10:29:08

Input Set : N:\EBONY'S\ES.txt

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L:77 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:83 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:85 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:91 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:93 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:99 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
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L:115 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:117 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:123 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:125 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:131 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:133 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:139 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:141 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:147 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:149 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:155 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:157 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:163 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:165 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:171 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:173 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:179 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:181 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:187 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:189 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:195 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:199 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE: YYYY-MM-DD
L:201 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:451 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:451 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:453 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:453 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:453 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
M:332 Repeated in SeqNo=2
L:455 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:455 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:457 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:457 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:459 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:459 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:461 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:461 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:463 M:333 E: Wrong sequence grouping, Amino acids not in groups!
```

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Input Set : N:\EBONY'S\ES.txt

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L:463 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:465 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:465 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:467 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:467 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:469 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:469 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:471 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:471 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:473 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:473 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:475 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:475 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:545 M:252 E: No. of Seq. differs, <211>LENGTH:Input:353 Found:357 SEQ:2
L:855 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:855 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:857 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:857 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:857 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
M:332 Repeated in SeqNo=4
L:859 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:859 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:861 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:861 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:863 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:863 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:865 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:865 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:867 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:867 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:869 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:869 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:871 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:871 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:873 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:873 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:875 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:875 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:877 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:877 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:879 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:881 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:881 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:883 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:883 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:885 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:885 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:887 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:887 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
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Input Set : N:\EBONY'S\ES.txt

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L:889 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:889 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:891 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:891 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:893 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:893 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:895 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:895 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:897 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:897 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:899 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:899 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:901 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:901 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:903 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:903 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:905 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:905 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:909 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:909 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:911 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:911 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:913 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:913 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:917 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:917 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:919 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:919 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:921 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:921 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:923 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:923 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:925 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:925 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:929 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:929 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:931 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:931 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:933 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:933 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:935 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:1051 M:252 E: No. of Seq. differs, <211>LENGTH:Input:379 Found:398 SEQ:4
L:1477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:2111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:2399 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:28
M:332 Repeated in SeqNo=28
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Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\1665350A.raw

L:3097 M:252 E: No. of Seq. differs, <211>LENGTH:Input:660 Found:714 SEQ:28 L:3529 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:34 M:332 Repeated in SeqNo=34 L:4095 M:252 E: No. of Seq. differs, <211>LENGTH:Input:915 Found:948 SEQ:34 L:4407 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:39 M:332 Repeated in SeqNo=39 L:4599 M:252 E: No. of Seq. differs, <211>LENGTH:Input:390 Found:404 SEQ:39 L:5153 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:49 M:332 Repeated in SeqNo=49 L:5527 M:252 E: No. of Seq. differs, <211>LENGTH:Input:690 Found:718 SEQ:49 L:5557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 L:6007 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:59 M:332 Repeated in SeqNo=59 L:6163 M:252 E: No. of Seq. differs, <211>LENGTH:Input:216 Found:223 SEQ:59 L:6391 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:64 M:332 Repeated in SeqNo=64 L:6547 M:252 E: No. of Seq. differs, <211>LENGTH:Input:312 Found:315 SEQ:64 L:7339 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:71 M:332 Repeated in SeqNo=71 L:7655 M:252 E: No. of Seq. differs, <211>LENGTH:Input:259 Found:296 SEQ:71 L:7879 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:73 M:332 Repeated in SeqNo=73 L:9441 M:252 E: No. of Seq. differs, <211>LENGTH:Input:620 Found:762 SEQ:73 L:9837 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:84 M:332 Repeated in SegNo=84 L:10267 M:252 E: No. of Seq. differs, <211>LENGTH:Input:398 Found:425 SEQ:84 L:11275 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:96 M:332 Repeated in SeqNo=96 L:11677 M:252 E: No. of Seq. differs, <211>LENGTH:Input:490 Found:523 SEQ:96 L:12465 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:109 M:332 Repeated in SeqNo=109 L:12823 M:252 E: No. of Seq. differs, <211>LENGTH:Input:420 Found:444 SEQ:109 L:13031 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 L:13855 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:127 M:332 Repeated in SeqNo=127 L:14867 M:252 E: No. of Seq. differs, <211>LENGTH:Input:282 Found:379 SEQ:127 L:15099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131 L:15671 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:137 M:332 Repeated in SeqNo=137 L:16295 M:252 E: No. of Seq. differs, <211>LENGTH:Input:382 Found:451 SEQ:137 L:17403 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:153 M:332 Repeated in SeqNo=153 L:18347 M:252 E: No. of Seq. differs, <211>LENGTH:Input:310 Found:423 SEQ:153 L:18719 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:159 M:332 Repeated in SeqNo=159 L:18827 M:252 E: No. of Seq. differs, <211>LENGTH:Input:300 Found:310 SEQ:159 L:20031 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174 L:20213 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:175

M:332 Repeated in SeqNo=175

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Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\1665350A.raw

L:21369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175L:21413 M:252 E: No. of Seq. differs, <211>LENGTH:Input:636 Found:740 SEQ:175 L:22841 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:190 M:332 Repeated in SeqNo=190 L:24077 M:252 E: No. of Seq. differs, <211>LENGTH:Input:607 Found:749 SEQ:190 L:25169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 L:25173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 L:25319 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:207 M:332 Repeated in SeqNo=207 L:25381 M:252 E: No. of Seq. differs, <211>LENGTH:Input:296 Found:304 SEQ:207 L:25731 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:213 M:332 Repeated in SeqNo=213 L:25903 M:252 E: No. of Seq. differs, <211>LENGTH:Input:360 Found:369 SEQ:213 L:26719 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:227 M:332 Repeated in SeqNo=227 L:26961 M:252 E: No. of Seq. differs, <211>LENGTH:Input:550 Found:268 SEQ:227 L:205 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (423) Counted (227)

This application file contains additional errors ! Only the first 1000 errors are shown above !